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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/521,127	11/07/2005	Ehud Gal	U 015585-5	6814	
	140 7590 09/14/2007 LADAS & PARRY 26 WEST 61ST STREET NEW YORK, NY 10023			EXAMINER		
				SCHWARTZ, JO	SCHWARTZ, JORDAN MARC	
				ART UNIT	PAPER NUMBER	
				2873		
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				09/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-7,10-13,15-19 and 21 is/are rejected. 7) Claim(s) 8,9,14,20 and 22-24 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.		Application No.	Applicant(s)					
Jordan M. Schwartz 2873 Jordan M. Schwartz 2874 Jordan M. Jor		10/521,127	GAL ET AL.					
The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extending the time may be available under the provisors of 3 CFR. 13(6). In no event, howers, may reply be timely filed If NO period for reply is apported above, the morten statulating parties of the period of the communication of the provisors of the provisor of the provisors of the provisor of the communication. Pages and will apply add will easily SN (8) MONTHS from the mailing date of this communication. Pages and provisors of the provisor of the provisors of the provisor	Office Action Summary	Examiner	Art Unit					
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Driscoll Jr et al publication number 2004/0008423.

Driscoll discloses the limitations therein including the following: a wide angle imaging assembly (abstract, Figure 1C,1D re the panoramic lens); comprising a main lens produced from an aspherical optical block (paragraphs 0041 and 0042 re aspherical surfaces and formed by molding so therefore "produced from an aspherical optical block"); comprising a transparent upper surface (Figure 1C, paragraph 0042 the upper surface of panoramic lens "101"); at least part of which is capable of reflecting rays that impinge from the inner side (Figure 1C, the reflective part of the upper surface); a transparent perimeter surface (Figure 1C, the side perimeter surface from which the light rays are entering); a transparent lower surface (Figure 1C, the portion of the lower surface from which the light rays exit the lens); light originating from a first scene having a 360 degree panoramic perimeter (Figures 1C and 1D); are refracted by

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the perimeter surface, enter the block, are reflected by the upper surface towards the lower surface and are then refracted by the lower surface and exit (Figure 1C); the upper surface at least partially coated with reflective material on its exterior side (paragraph 0042). The lens material and reflective coating material will inherently be selected to transmit and reflect light in a specific spectral range, such as "visible light" this being reasonably based upon Driscoll disclosing the panoramic lens being used for video conferencing (paragraphs 0006 and 0011).

Claims 1-7, 10-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Charles patent number 6,449,103.

Charles discloses the limitations therein including the following: a wide angle imaging assembly (abstract); comprising a main lens produced from an aspherical optical block (column 13, lines 12-17, column 26, line 67, column 39, line 34 re aspherical surfaces and formed by molding so therefore "produced from an aspherical optical block"); comprising a transparent upper surface (see Figures such as Figure 65, column 3, lines 25-45); at least part of which is capable of reflecting rays that impinge from the inner side (see figures such as Figure 65); a transparent perimeter surface (see figures such as Figure 65); a transparent lower surface (see figures such as Figure 65); light originating from a first scene having a 360 degree panoramic perimeter (abstract, see Figures such as Figure 65); are refracted by the perimeter surface, enter the block, are reflected by the upper surface towards the lower surface and are then refracted by the lower surface and exit (see figures such as Figures 65); the upper surface at least partially coated with reflective material on its exterior side (column 3,

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lines 25-45). The lens material and reflective coating material will inherently be selected to transmit and reflect light in a specific spectral range, such as "visible light" this being reasonably based upon Charles disclosing the panoramic lens being used for film cameras or surveillance systems (column 1, lines 15-40). Charles further discloses the assembly comprising a transparent area in the upper part enabling light from a second scene located at least partially above the first scene to pass through the transparent area, travel through the block and exit (see Figures such as Figures 73, 75, 86, 93, 139); a curvature of the transparent area different from that of the remainder area of the lens (see Figures such as Figures 105, 139); the lower surface described by two different axi-symmetric curves (See Figures such as Figures 73, 75, 83, 86, 139); the transparent area fabricated as a hole (see figures such as Figures 93, 105, 139, 157); a plurality of optical components within the hole to enhance light from the second scene (see Figures such as Figures 93, 105, 124, 157); a plurality of optical lenses above the transparent area to enhance light from the second scene (see Figures such as Figures 75, 86, 93, 139).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-5, 7, 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wallerstein patent number 6,885,509 in view of Driscoll Jr et al publication number 2004/0008423.

With respect to independent claim 1, Wallerstein discloses the limitations therein including the following: a wide angle imaging assembly (Figures 1-3, column 1, lines 22-52, column 2, lines 37-54); comprising a main lens (Figures 1-3, the main lens "18"); comprising a transparent upper surface (Figures 1-3, column 2, line 58 to column 3, line 7, the upper outermost portion and upper central portion as the "transparent upper surface"); at least part of which is capable of reflecting rays that impinge from the inner side (Figures 1-3, the surface covered with reflective material "30"); a transparent perimeter surface (Figures 1-3, convex outer surface "26") a transparent lower surface (Figures 1-3, the lowermost surface portion at which the light rays exit); light originating from a first scene having a 360 degree panoramic perimeter (Figures 1-3, column 1, lines 22-52, column 2, lines 37-54); are refracted by the perimeter surface, enter the block, are reflected by the upper surface towards the lower surface and are then refracted by the lower surface and exit (Figures 1-3). The lens material and reflective coating material will inherently be selected to transmit and reflect light in a specific spectral range, such as "visible light" this being reasonably based upon Wallerstein disclosing the panoramic lens for use in observing a 360 degree surrounding panoramic scene (column 1, lines 22-52).

Wallerstein discloses as is set forth above but does not disclose the main lens "produced from an aspheric optical block". Driscoll teaches that in using a panoramic

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lens for viewing a 360 degree surrounding panoramic scene (Figures 1C and 1D, paragraph 0043) that it is desirable to have the lens formed from an aspheric optical block for the purpose of providing a higher degree of resolution near the lens horizon (paragraphs 0012, 0042-0043). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the lens of Wallerstein as being formed from an aspherical optical block since Driscoll teaches of the desirability of using an aspherical optical block for the purpose of providing a lens of increased resolution.

Wallerstein and Driscoll disclose and teach as is set forth above and Wallerstein further discloses the upper surface at least partially coated with reflective material (column 2, line 58 to column 3, line 6); further comprising a transparent area in the upper part enabling light from a second scene located at least partially above the first scene to pass through the transparent area, travel through the block and exit (Figure 3 re light rays entering lens "66" as the second scene); a curvature of the transparent area different from that of the remainder area of the lens (Figure 3 re the central transparent part different from the outer portion of the upper surface); the transparent area fabricated as a hole (Figure 3, the "hole portion" in which lenses "72" and "70" lie); a plurality of optical components within the hole to enhance light from the second scene (Figure 3, lenses "72" and "70", column 5, line 38 to column 6, line 6); a plurality of optical lenses above the transparent area to enhance light from the second scene (Figure 3, lenses "66" to "72", column 5, line 38 to column 6, line 6).

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Claims 15-19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wallerstein patent number 6,885,509 in view of Driscoll Jr et al publication number 2004/0008423 and further in view of Doi publication number 2003/0099045.

Wallerstein and Driscoll Jr disclose and teach as set forth above and Wallerstein further discloses a holding element extending downward and not interfering with light rays exiting the lower surface (Figure 3, holding element "12") and the holder connected to an image capture device (Figure 6) but does not specifically disclose the holder adjacent the lower surface, shaped like a tube, optically transparent, coaxial with the optical block and optical lenses to enhance the quality of image exiting the block. Doi teaches that in a panoramic image lens having light refracted and reflected similar to that of Wallerstein (Doi, Figure 1) that it is desirable to have a holder adjacent to the lower surface, shaped like a tube, having an optically transparent material, coaxial with the optical block, and optical lenses to enhance the quality of image exiting the block for the purpose of connecting the optical block to an image sensor without interfering with the rays exiting the lower surface (Figure 1, holder "10", lenses "6", image capture device "7" and "8" paragraphs 0004-0005). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the holder of Wallerstein as further having the features set forth above since Doi teaches that in a panoramic image lens having light refracted and reflected similar to that of Wallerstein (Doi, Figure 1) that it is desirable to have a holder with these features for the purpose of connecting the optical block to an image sensor without interfering with the rays exiting the lower surface. With respect to the claimed holding element as "fabricated together

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with and part of the optical block" it has been held that the use of a one piece construction instead of the structure disclosed in the prior art would be merely a matter of obvious engineering choice. In Re Larson, 340 F 2d 965, 968, 144 USPQ 347, 349 (CCPA 1965). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the holding element as fabricated together with and part of the optical block, i.e. "integrally formed" since it has been held that the use of a one piece construction instead of the structure disclosed in the prior art would be merely a matter of obvious engineering choice. The connector taught by Doi will inherently have a mechanical connector with a first edge connecting to the holding element since the system of Figure 1 will inherently need a connecting piece to connect the holder "1" to the imaging device "8").

Prior Art Citations

Wallerstein et al publication number 2004/0008407, Powell patent number 5,473,474 and Greguss patent number 4,566,763, previously cited herein still disclose wide angle imaging lens assemblies that would have read on or made obvious a number of the above rejected claims, however, such rejections would have been repetitive.

Wallerstein publication number 2002/0154417 previously being cited herein still discloses a wide angle imaging lens assembly that would have made obvious a number of the above rejected claims, however such rejections would have been repetitive.

Shu patent number 6,115,193 is being cited herein to show an additional wide angle imaging lens assembly that would have read on or made obvious a number of the above rejected claims, however, such rejections would have been repetitive.

Allowable Subject Matter

Claims 8-9, 14, 20, and 22-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims (and claim 24 overcoming the claim objection set forth above).

The following is a statement of reasons for the indication of allowable subject matter: with respect to the allowable subject matter, none of the prior art either alone or in combination disclose or teach of the claimed combination of limitations to warrant a rejection under 35 USC 102 or 103. Specifically, with reference to claims 8-9, none of the prior art either alone or in combination, disclose or teach of the claimed wide angle imaging lens assembly specifically including, as the distinguishing features in combination with the other limitations, the light from the second scene passing through the optical block as claimed, and the transparent area fabricated as a hole extending along the vertical axis of symmetry from the upper surface to the lower surface. Specifically, with reference to claim 14, none of the prior art either alone or in combination, disclose or teach of the claimed wide angle imaging lens assembly specifically including, as the distinguishing features in combination with the other limitations, a hole conically shaped extending from the upper surface to the lower surface and a black cone compatibly placed with the hole to prevent glare. Specifically,

with reference to claims 20, 22, and 23, none of the prior art either alone or in combination, disclose or teach of the claimed wide angle imaging lens assembly specifically including, as the distinguishing features in combination with the other limitations, the holding element fabricated together with and part of the optical block adjacent the lower surface and extending downward, not interfering with the rays exiting the lower surface, a mechanical connector to connect to the holding element, and a second edge of the connector designed to connect to an illumination source with the illumination source positioned adjacent to the exterior edge of the holding element. Specifically, with reference to claim 24, none of the prior art either alone or in combination, disclose or teach of the claimed wide angle imaging lens assembly specifically including, as the distinguishing features in combination with the other limitations, the hole extending along the vertical axis of symmetry of the optical block with an optical assembly within the hole having the specific structure as claimed and the optical assembly not interfering with light rays reflected from the optical block.

Response to Arguments

Applicant's arguments filed June 25, 2007 have been fully considered but they are not persuasive.

With respect to Driscoll Jr, applicant argues that the reference discloses two different reflective surfaces before being refracted the second time and that the present invention requires only a single reflection. However, applicant is arguing a limitation that has not been claimed. Applicant has not claimed "only a single reflection of light rays by said wide-angle imaging assembly" or a similar form of limitation. Instead, applicant is

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claiming the light refracted by the perimeter surface, the light entering the optical block, the light then being reflected by the upper surface and then refracted by the lower surface. Driscoll Jr. discloses all of these limitations thereby reading on the rejected claims. The claimed "are then reflected" goes to the sequential order the limitations, i.e. first enters the optical block and is then reflected by the upper surface but does not prohibit an intermediary reflection before being reflected by the upper surface.

With respect to Charles, applicant makes the same argument above concerning the present invention requiring only a single reflection. Again, however, applicant is arguing a limitation that has not been claimed. Therefore, embodiments of Charles which disclose two reflections, such as the figure 65 embodiment, still read on the claimed limitations. Regardless, many of Charles embodiments disclose only a single reflection. See for example the embodiments of figures 106-107, 116-118, 120-121, 123-124, 128, and 148-149, all of which disclose the light refracted by the perimeter surface, the light entering the optical block, the light then being reflected by the upper surface and then refracted by the lower surface and disclose no intermediary reflection between the entering of the block and the light being reflected by the upper surface thereby reading on the claimed limitations. Furthermore, Figures 60 and 90 disclose only a single reflection and additionally disclose all of the claimed limitations of the rejected claims if the system is turned upside down. Regardless, the claimed "upper" and "lower" are relative terms that depend on the viewers location and therefore the embodiments of figures 60 and 90 would likewise read on the claimed limitations.

With respect to Wallerstein in view of Driscoll Jr, applicant argues that the resolution of an aspheric or an anamorphic lens is not necessarily the highest at the horizon, that one may desire maximum resolution at other than the lens horizon and that it is not known as to where the highest resolution for Wallerstein is intended. However, the issue is not where the highest resolution is intended but rather whether one of ordinary skill in the art would have been motivated to use an aspherical block to increase resolution. Driscoll Jr clearly teaches of using an aspherical optical block to provide an increased resolution, specifically at the lens horizon if it is so desired. Clearly Driscoll Jr would provide motivation to use an aspherical lens block to increase the resolution of the panoramic assembly, specifically at the lens horizon if that is where an increased resolution is so desired. Applicant further argues that an aspherical optical block will not necessarily result in an increased resolution. The issue, however, is not whether it would or would not result in the increased resolution but rather whether one of ordinary skill in the art would have been motivated to use an aspherical block to increase resolution. Driscoll Jr teaches that the use of the aspherical block increases resolution and therefore, one of ordinary skill in the art would be motivated to use an aspherical block based upon this teaching regardless of whether that is true or not.

With respect to Wallerstein in view of Driscoll Jr and further in view of Doi, applicant first argues that there is no evidence of motivation on the part of Wallerstein/Driscoll to look for Doi. The examiner disagrees. Wallerstein teaches of the desirability of having a holding element (Figure 1, "12"). Additionally, since applicant is broadly claiming "holding element" then the cylindrical lens block "20" of Figure 1 of

Wallerstein could likewise be considered as a holding element (since the device could be held from this cylindrical component) and cylindrical block "20" is located adjacent to the lower surface of the optical block and extends downward and does not interfere with or block the rays that exit from the lower surface thereby satisfying all of the limitations of at least claim 15 with the exception of the claimed "fabricated together with and part of the optical block" i.e. "integrally formed". Regardless, Doi teaches of such a holding member below the optical block and extending downward to provide an efficient means of connecting the block to a sensor. Applicant further argues that the present holding element "enables direct connection of the main lens to an image capture device" and it "can be utilized as an illumination connector to conduct light from an illumination source through the main lens in order to view a scene being viewed. However, applicant is arguing limitations that have not been claimed. In claim 15, applicant is broadly claiming an integrally formed holding element, located below the optical block and extending downward and not interfering with the light rays. None of the limitations are directed to a direct connection to an image capture device or to conducting light from an illumination source to view a scene being used. Applicant additionally argues the integrally formed block and holding element are not merely an obvious matter of engineering choice. However, Doi teaches of the optical block and holding element with all of the claimed limitations except for the claimed "integrally formed" and the claimed "integrally formed" as an obvious matter of engineering choice is established case law. Additionally, as stated above, even without the Doi reference, Wallerstein alone discloses the "holding element" (Figure 1, "20") with all of the limitations of claim 15 and having parts "20" and

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"18" of Wallerstein as integrally formed would be an obvious matter of engineering choice as per established case law.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jordan M. Schwartz whose telephone number is (571) 272-2337. The examiner can normally be reached on Monday to Friday (8:30 to 4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached at (571) 272-2333. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jordan M. Schwartz Primary Examiner

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September 10, 2007